

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A solid state disk system comprising:
 - a non-volatile storage media;
 - a memory module;
 - an interface module for communicating with a computer network;
 - a control module operatively coupled to the non-volatile storage media, the memory module, and the interface module;
 - a load priority queue stored by said control module for maintaining a list of data segment requests received by said interface module;
 - a sequential load map stored by said control module for storing the order in which data segments are copied from said non-volatile storage media to said memory module during start-up of said solid state disk system;
 - said control module, in response to a shutdown event of the solid state disk system,
copying data from the memory module to the non-volatile storage media;
 - said control module[[;]], during start-up of the solid state disk system, copying data segments from said non-volatile storage media to said memory module in the order listed in said sequential load map;
 - said control module, during start-up of the solid state disk system, checking the load priority queue;
 - said control module, if data segments are listed in said load priority queue, temporarily stopping said copying of data segments listed in said sequential load map;
 - said control module copying the data segments listed in the load priority queue from the non-volatile storage media to said memory module;
 - said control module, after all data segments in said load priority queue have been copied, resuming said copying of data segments listed in said sequential load map.

2. (Original) The system of claim 1, wherein said memory module is a RAM module.

3. (Original) The system of claim 1, said interface module, upon receiving a read or write request from said computer network, issues a command to said control module to check the load priority queue.

4. (Original) The system of claim 3, said control module issuing a notice to said interface module when all data segments listed in the load priority queue have been copied from said non-volatile storage media to said memory module.

5. (Currently Amended) In a solid state memory system including a non-volatile storage media, a memory module, an interface module for communicating with a computer network, and a control module, a method for copying data segments from the non-volatile storage media to the memory module during system start up, comprising:

said control module copying data from said memory module to said non-volatile storage media in response to a shutdown event;

said control module creating a sequential load map identifying the order that segments will be copied from said non-volatile storage media to said memory module;

said control module copying segments will be copied from said non-volatile storage media to said memory module according to said sequential load map in response to a startup of said solid state memory system;

said control module receiving a request for data segments from said interface module and placing said data segments into a load priority queue;

said control module checking the load priority queue to determine if data segments are stored in said load priority queue, and if segments are stored in said queue, copying said data segments from said non-volatile storage means to said memory module before continuing to copy the data segments listed in said sequential load map.

6. (Original) The method of claim 5, further comprising the steps of:

said control module, after copying all segments listed in said load priority queue, issuing a notice to said interface module that the requested data segment is available for access.

7. (Previously Presented) The method of claim 5, further comprising the steps of:
said interface module receiving a data access request from the computer network and
issuing a command to said control module to check the load priority queue.
8. (New) The solid state disk system of claim 1, wherein said shutdown event occurs in
response to a power failure of the solid state disk system.
9. (New) The solid state disk system of claim 1, further comprising a temporary power
supply.
10. (New) The solid state disk system of claim 9, wherein the temporary power supply
comprises a battery.
11. (New) The solid state disk system of claim 9, wherein the temporary power supply
comprises a direct current uninterrupted power supply.
12. (New) The method of claim 5, wherein the shutdown event occurs in response to a
power failure of the solid state disk system.
13. (New) The method of claim 12, wherein the startup of the solid state disk system
occurs in response to power being restored to the solid state disk system.